INTERNATIONAL SEARCH REPORT

Intc.___al Application No PCT/US2004/029526

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G07C5/00 G08C B60R25/10 G08G1/127 B60Q1/52 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) G08G B60Q IPC 7 G07C B60R Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category 9 Citation of document, with indication, where appropriate, of the relevant passages χ WO 94/07225 A (AT/COMM INCORPORATED) 1-6,9-1731 March 1994 (1994-03-31) page 2, lines 28-35 page 3, lines 3-18,28-34 page 5, lines 10-16 page 5, line 30 - page 6, line 6 page 8, line 33 - page 9, line 6 page 9, lines 19-26 figures 1-3 1-3,6,X US 2002/084918 A1 (ROACH JOHN EDWARD) 9-11.4 July 2002 (2002-07-04) 13-15,17paragraphs '0013!, paragraphs '0019!, '0014! '0021!, '0026! paragraphs '0069! - '0073! paragraphs '0076! - '0079! figures 1,2,5 Patent family members are listed in annex. Further documents are listed in the continuation of box C. χ ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled document referring to an oral disclosure, use, exhibition or other means in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 21/03/2005 14 March 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Meister, M

INTERNATIONAL SEARCH REPORT

Inte.....al Application No
PCT/US2004/029526

	A THE SAME AND DESCRIPTION OF THE STANT	
	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, or the relevant passages	Helevant to dain No.
X	US 5 008 661 A (RAJ ET AL) 16 April 1991 (1991-04-16) column 5, lines 3-11,26-38,45-58 column 6, lines 2-10,30-41,48-59 column 7, lines 25-34 column 8, lines 6-12 column 8, line 65 - column 9, line 18 column 9, lines 27-46 column 11, lines 16-21 column 12, lines 23-27 figures 1,8	1,4-6,9, 12,13, 16,17
X	FR 2 637 712 A (DUBUC PAUL) 13 April 1990 (1990-04-13) page 1, lines 1-7 page 2, lines 22-24 page 3, line 30 - page 4, line 7 page 6, lines 10-25 page 7, line 30 - page 8, line 31 page 10, line 36 - page 11, line 31 page 19, lines 15-24,30-34	1-3,5-7, 9-11, 13-15,17

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte nal Application No
PCT/US2004/029526

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
WO 9407225	A	31-03-1994	US AU WO US US US	5347274 A 4857993 A 9407225 A1 6653946 B1 2003067396 A1 5805082 A	13-09-1994 12-04-1994 31-03-1994 25-11-2003 10-04-2003 08-09-1998	
US 2002084918	A1	04-07-2002	NONE			
US 5008661	Α	16-04-1991	CA EP WO	1316584 C 0238640 A1 8702165 A1	20-04-1993 30-09-1987 09-04-1987	
FR 2637712	 A	13-04-1990	FR	2637712 A1	13-04-1990	

PATENT COOPERATION TREATY

REC'D 17 MAR 2005 WIPO PCT

From the INTERNATIONAL SEARCHING AUTHORITY

То:					PCT	
see form PCT/ISA/220			37/3.	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below		
			International filing date (date (date)	(day/month/year) Priority date (day/month/year) 16.09.2003		
	national Patent Clas 7C5/00, G08G1/1		both national classification, B60R25/10	and IPC		
Appl QU		RPORATED				
1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Lack of unity of invention □ Box No. V Lack of unity of invention □ Box No. VI Certain documents cited □ Box No. VII Certain documents cited □ Box No. VIII Certain defects in the international application □ Box No. VIII Certain observations on the international application □ Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailling of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further details, see notes to Form PCT/ISA/220.						
Non	e and mailing addres	on of the ICA.		Authorized Officer		

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/029526

Box No. I Basis of the opinion						
 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 						
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	ng					
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 						
a. type of material:						
□ a sequence listing						
□ table(s) related to the sequence listing						
b. format of material:						
☐ in written format						
☐ in computer readable form						
c. time of filing/furnishing:						
\square contained in the international application as filed.						
\Box filed together with the international application in computer readable form.						
☐ furnished subsequently to this Authority for the purposes of search.						
In addition, in the case that more than one version or copy of a sequence listing and/or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	to					
4. Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/029526

	Во	x No. II	Priority					
1.	—— ⊠	The fol		nas not he	an furnich <i>c</i>	ord:		
		The following document has not been furnished:						
	$oxtimes$ copy of the earlier application whose priority has been claimed (Rule 43 \emph{bis} .1 and 66.7(a							
	\square translation of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7							
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.	It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
4.	Additional observations, if necessary:							
	, A							
	Вох	No. V	Reasoned state	ment und	er Rule 43	Bbis.1(a)(i) with regard to novelty, inventive step or		
	ind	ustrial a	pplicability; citat	ons and e	xplanatio	ns supporting such statement		
1.	Stat	ement						
	Nov	elty (N)		Voor	Claims	500		
1101		City (14)		Yes: No:	Claims Claims	5,6,8 1-4,7,9-17		
				110.	Olalins	1-4,7,8-17		
	Inve	ventive step (IS) Yes		Yes:	Claims	8		
				No:	Claims	1-7,9-17		
	Indu	dustrial applicability (IA)		Yes:	Claims	1-17		
				No:	Claims			

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: WO 94/07225 A (AT/COMM INCORPORATED) 31 March 1994 (1994-03-31)

D2: US 2002/084918 A1 (ROACH JOHN EDWARD) 4 July 2002 (2002-07-04)

D3: US-A-5 008 661 (RAJ ET AL) 16 April 1991 (1991-04-16)

D4: FR-A-2 637 712 (DUBUC PAUL) 13 April 1990 (1990-04-13)

1. Clarity (Art. 6 PCT).

Claims 9, 13

Although claims 9 and 13 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter because claim 13 contains all the features of claim 9 and differ from each other only with regard to the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

2. Novelty (Art. 33 (2) PCT).

Claim 9

The document D1 discloses (the references in parentheses applying to this document):

an apparatus for providing a hazardous material alert for use with a vehicle that is transporting hazardous material (pag. 2, lin. 29-35, pag. 3, lin. 3-6, pag. 5, lin. 10-16, pag. 5, lin. 30-36; fig. 1), the apparatus comprising:

means for detecting an hazard event (pag. 3, lin. 13-18, pag. 6, lin. 1-6, pag. 8, lin. 33 - pag. 9, lin. 6; fig. 1-3); and

means for transmitting the hazardous material alert in response to the hazard event, wherein the hazardous material alert includes information relating to the hazardous

material (pag. 3, lin. 8-13 and 28-34, pag. 8, lin. 33 - pag. 9, lin. 6, pag. 9, lin. 19-26).

As all the features of claim 9 are present in the same combination in document D1, the subject-matter of claim 9 is not new (Article 33 (2) PCT).

It is pointed out that the subject-matter of claim 9 is not new (Article 33 (2) PCT) also over the disclosure of documents D2 (see par. 0013, 0014, 0019, 0021, 0026, 0069-0073, 0076-0079; fig. 1, 2, 5), D3 (see col. 5, lin. 3-11, 26-38 and 45-58, col. 6, lin. 2-10, 30-41 and 48-59, col. 7, lin. 25-34, col. 8, lin. 6-12, col. 8, lin. 65 - col. 9, lin. 18, col. 9, lin. 27-46, col. 12, lin. 23-27; fig. 1, 8) or D4 (see pag. 1, lin. 1-7, pag. 2, lin. 22-24, pag. 3, lin. 30 - pag. 4, lin. 7, pag. 6, lin. 10-25, pag. 7, lin. 30 - pag. 8, lin. 31, pag. 10, lin. 36 - pag. 11, lin. 31, pag. 19, lin. 15-24 and 30-34).

Claim 1

The subject-matter of claim 1 corresponds in terms of method steps to that of claim 9. The objections raised in respect of this latter claim, therefore, also apply, mutatis mutandis, to claim 1 which is thus not new (Article 33 (2) PCT).

Claim 13

The subject-matter of claim 13 corresponds to that of claim 9 and defines more specifically "the means for detecting a hazard event" as "a detection logic for receiving an indication that a hazard event has occurred", and "the means for transmitting the hazardous material alert in response to the hazard event" as "a transmission logic coupled to the detection logic and operating to transmit the hazardous material alert in response to hazard event", both the detection logic and the transmission logic being disclosed in documents D1-D4 (see the corresponding cited passages mentioned for claim 9). The objections raised in respect of claim 9, therefore, also apply, mutatis mutandis, to claim 13 which is thus not new (Article 33 (2) PCT).

Claim 17

The subject-matter of claim 17 corresponds in terms of computer-readable media comprising instructions to that of claim 9. The objections raised in respect of this latter claim, therefore, also apply, mutatis mutandis, to claim 17 which is thus not new (Article 33 (2) PCT).

Claims 2, 4, 10, 12, 15, 16

The subject-matter of dependent claims 2, 4, 10, 12, 15, 16 is also not new (Article 33 (2) PCT) because the same additional features are present in the same combination in document D1:

- Claims 2, 10, 15: pag. 8, lin. 33 pag. 9, lin. 6, pag. 9, lin. 19-26;
- Claims 4, 12, 16: pag. 3, lin. 28-34.

Claims 2, 3, 10, 11, 14, 15

The subject-matter of dependent claims 2, 3, 10, 11, 14, 15 is also not new (Article 33 (2) PCT) because the same additional features are present in the same combination in document D2:

- Claims 2, 10, 15: par. 0077;
- Claims 3, 11, 14: par. 0077.

Claims 4, 12, 16

The subject-matter of dependent claims 4, 12, 16 is also not new (Article 33 (2) PCT) because the same additional features are present in the same combination in document D3 (col. 7, lin. 25-34).

Claims 2, 7, 10, 15

The subject-matter of dependent claims 2, 7, 10, 15 is also not new (Article 33 (2) PCT) because the same additional features are present in the same combination in document D4:

- Claims 2, 10, 15: pag. 7, lin. 30 pag. 8, lin. 31, pag. 19, lin. 15-22;
- Claim 7: pag. 11, lin. 1-31, pag. 19, lin. 23-24.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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3. Inventive Step (Art. 33 (3) PCT).

Claims 5, 6

The additional features in the subject-matter of claims 5, 6 are a matter of normal design option. Consequently, the subject-matter of claims 5, 6 appears to lack an inventive step (Art. 33(3) PCT).